

**UNCLASSIFIED**

**AD 401 578**

**DEFENSE DOCUMENTATION CENTER**

**FOR**

**SCIENTIFIC AND TECHNICAL INFORMATION**

**CAMERON STATION, ALEXANDRIA, VIRGINIA**



**UNCLASSIFIED**

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

401 578

(5) 17511

22

C/084/60/000/006/002/010  
F010/F004

STEP

AUTHOR: (8) Wang, Yung-shu (3769/3057/2579)

TITLE: (6) Rolling iron powder into steel

PERIODICAL: (15) K'o Hst'eh Hua Pao, no. 6, 1960, 208-209

AS  
TEXT: A new metallurgical process has been developed by which iron powder can be rolled directly into steel tape. The process includes the following steps: (1) preparation of iron powder, (2) cold rolling, (3) sintering, (4) rerolling, (5) chemical treatment, and (6) winding the tape on a reel. The quality of the iron powder used determines the quality of the steel tape. The making of iron powder directly from ore has been achieved in the USSR. The excessive amount of material used in the first rough rolling may result in cracks due to expansion in the heating process. The sintering temperature is usually 1100-1200°C. After sintering, chemical processes may be made as desired. The major advantages of this method lie in economy of production costs, simplicity of process, and better quality. In many foreign countries this method has already been adopted for making copper tape, nickel tape, aluminum tape, stainless steel tape, and materials for atomic piles such as uranium and thorium. There are 3 figures.

Card 1/1